

CH3: chemistry and the environment

This activity is based on the movie « The Inconvenient Truth » which should be purchased on DVD or downloaded through legal means.

ACTIVITY 4 : The Inconvenient Truth

Part 1: Website

Visit the website <http://an-inconvenient-truth.com>



Al Gore, ex vice president of the United States, presenting his slide show in the documentary The Inconvenient Truth

Source:

https://commons.wikimedia.org/wiki/File:AlGoreGlobalWarmingTalk_Crop1.png?uselang=fr

In your opinion, what does the movie « The Inconvenient Truth » deal with?

In the section, « what you can do », find some ideas of things we can do in our every life in order to preserve the environment :

Part 2: Vocabulary test

Suggest a meaning for the following words :

English	French
Global warming	
Greenhouse gases	
To trap	
To thicken	
A trend	
To fluctuate	
To behave as though it were...	
According to...	
To be receding	
To be retreating	
The amount of CO ₂	
A link	
An ice shelf	
The thickness	
A phenomenon	
To be abundant	
A virus carrier	
Land based melting ice	
Sea rise	
to evolve	

ACTIVITY 5 : The Inconvenient Truth, the movie part 1

Part 3: Questions and answers

Watch the movie starting at 9'00 and answer the questions as you go along.

9'00-10'00

1. What is the basic science about global warming?
 - a)

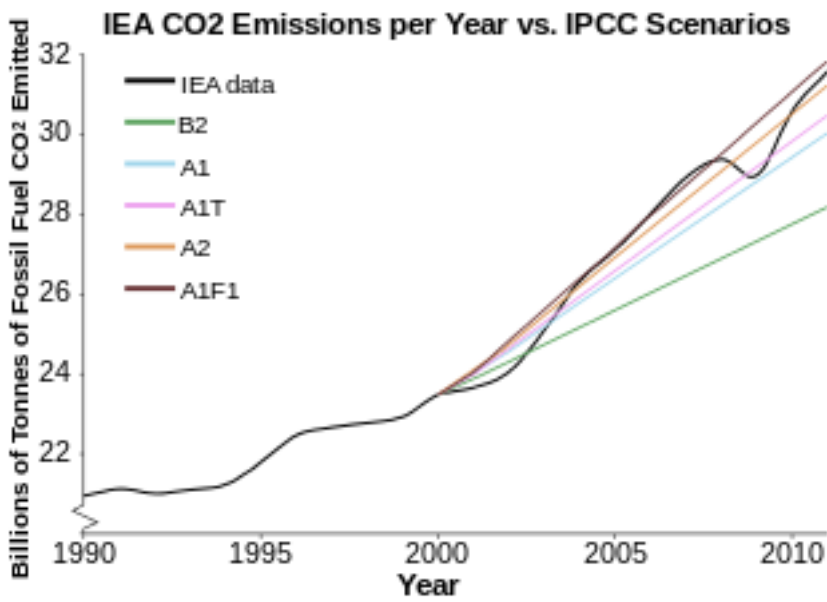
10'00-11'36

- b)

12'00-14'00 Research results

14'00-15'00

2. What is the trend that is being followed by CO₂ concentration in the atmosphere? Why does the amount of CO₂ fluctuate each year?



Source :
https://en.wikipedia.org/wiki/Global_warming

16'25-

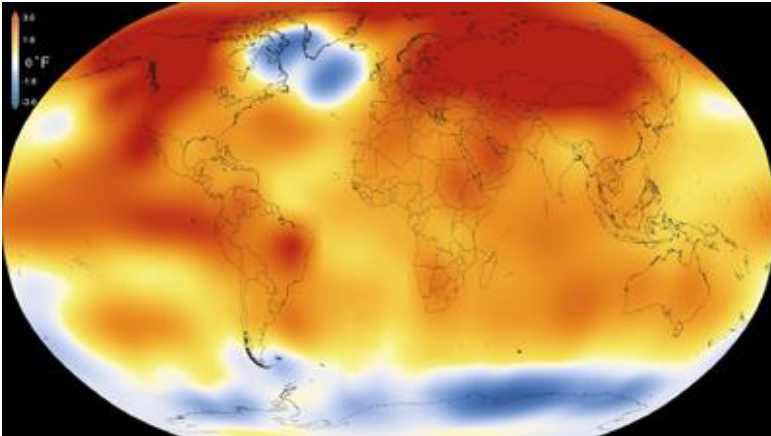
3. What is the effect of global warming on the planet (according to this part of the movie)?

18'30-

4. How do you measure the amount of CO₂ and temperature for each year?

20'30-

5. What is the trend that is being followed by CO₂ level in the atmosphere? What is the link between the temperature curve on earth and the CO₂ concentration?



Source :
https://en.wikipedia.org/wiki/Global_warming

ACTIVITY 6 : The Inconvenient Truth, the movie part 2

22'35-24'50

6. In the past thousand years what has the maximum amount of CO₂ been?

7. What is it now? What will it be in the next 50 years if nothing is done?

37'00-39'00

8. How does this affect our climate?

44'00-

9. What is the effect on the thickness of the sea ice shelf? What is the phenomenon observed?



Source :
https://en.wikipedia.org/wiki/Global_warming
Sea ice, shown here in Nunavut in northern Canada, reflects more sunshine, while open ocean absorbs more, accelerating melting.

51'30-

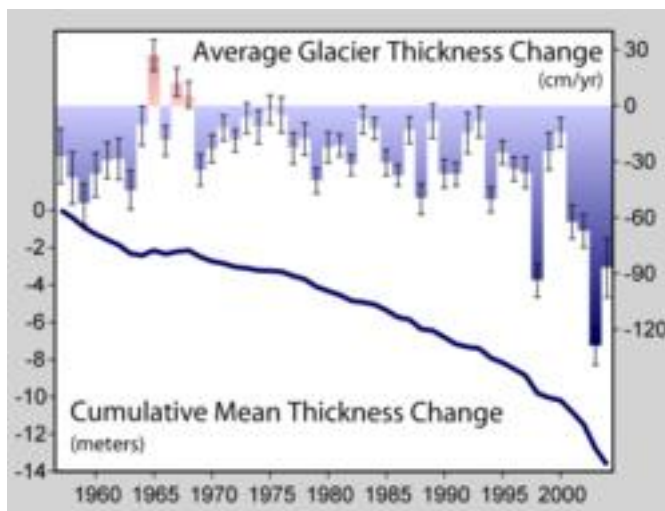
10. What will be the effects on insects?

55'00-

11. What is the effect on the ice shelf (study of the Larsen ice shelf in Alaska)?

56'40-

12. What is the effect on sea level of a melting floating iceberg and of land based melting ice (glacier)? Explain using a diagram.



Source :

https://en.wikipedia.org/wiki/Global_warming

Sparse records indicate that glaciers have been retreating since the early 1800s.

59'20-

13. If half of Greenland and half of West Antarctic were to melt, what would happen?

1hr03'40''-1hr09'40''

14. Why are we in this century putting recent pressure on the Earth?

1hr07'57''

15. What are the contributions to global warming around the world?

1hr08'36"

16. Why does Al Gore compare us all to frogs?

1hr30'-1hr33' What can we do to protect the Earth?

Activity summary

What you must remember :

- vocabulary associated with air and water pollution

Skills linked to the curriculum :

Compétences	Capacités à maîtriser
<ul style="list-style-type: none">– APP– ANA– COM	<ul style="list-style-type: none">– Citer des implications de la chimie dans des études menées sur l'environnement ou des actions visant à le préserver